ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

FACILITY ANNUAL HAZARDOUS WASTE REPORT

This report is for the calendar year ending December 31, 1985 (cont.)

XVIII. COMMENTS

Sherwin Williams
03165000003 / Cook
Chicago / Sherwin Wil,
Subpart F

US EPA RECORDS CENTER REGION 5
527544
932644

Facility's USEPA I.D. No. I L D 0 0 5 4 5 6 4 3 9

Facility's Illinois EPA I.D. No. 0 3 1 6 5 0 0 0 0 3

1) Page 2, Lines 1 and 2, T04 other thermal treatment is burning in boiler for recovery of heating value.

2) We did not do any ground water monitoring in 1985 because the Agnecy has determined that the wastewater equalization basins are not RCRA -regulated surface impoundments.

3) The Chemical Division of Sherwin-Williams was sold to PMC Specialties effective, July 1, 1985. Consequently, the figures on Page 2 reflect data for the first six (6) monthly only.

4) Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under 3002 (b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.

5) Our waste minimization plan includes the following:

   (a) Reuse of overstock and return goods in the process.
   (b) Better Formulation.
   (c) Categorical documentation and follow-up on spoiled batches.
   (d) Distillation and Reclamation of Wash Solvents (1986 Program).

Received
Feb. 24, 1986

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS
TREATMENT, STORAGE, AND DISPOSAL FACILITIES
Form A General Facility Standards

I. General Information

USEPA Number: ILD005456439 IEPA Number: 0316500003

LDF Facility: YES (NO) Notified As: GEN. / TSD Regulated As: GEN. / TSD

(A) Facility Name: SHERWIN-WILLIAMS CO.

(B) Street: 11541 S. CHAMPLAIN AVE.

(C) City: CHICAGO (D) State: IL (E) Zip Code: 60628

(F) Phone: 312-821-3000 (G) County: COOK

(H) Operator: SHERWIN-WILLIAMS CO.

(I) Street: 11541 S CHAMPLAIN AVE

(J) City: CHICAGO (K) State: IL (L) Zip Code: 60628

(M) Phone: 312-821-3000 (N) County: COOK

(O) Owner: SHERWIN-WILLIAMS CO.

(P) Street: 101 PROSPECT AVE., NW

(Q) City: CLEVELAND (R) State: OH (S) Zip Code: 44115

(T) Phone: 216-566-2000 (U) County: CUYAHOGA

Region: V (V) Date of Inspection: 1/17/86 (W) Time: (From) 2:00pm (To) 4:55pm

Type of Inspection: (ISS) RECORD REVIEW SAMPLING CITIZEN COMPLAINT
CLOSED WITHDRAWAL OTHER PART B
F/U ____/____/____ (Date of Initial Inspection)

(X) Weather Conditions: SUNNY 47°

Area	Section	Class I	Class II
OTH	703.154	✓	
OTH	725.116		✓
OTH	725.131	✓	
TOTAL Class I's & II's		2	1

(AA) Preparer Information

Name
GINO BRUNI

Agency/Title
IEPA / EPS I

Telephone
312-345-9780

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1 PAGE REMOVED
NON-RESPONSIVE

CME

APPENDIX A-1

FACILITY INSPECTION FORM FOR COMPLIANCE WITH INTERIM STATUS STANDARDS COVERING GROUNDWATER MONITORING

General Information

USEPA Number: I L D 0 0 5 4 5 6 4 3 9 IEPA Number: 0 3 1 6 5 0 0 0 0 3

Major Facility: (YES)/NO Notified As: G/TSD Regulated As: _____

Facility Name: Sherwin Williams

Street: 11541 S. Champlain

City: Chicago State: Illinois Zip Code: 60628

Phone: 312/660-4016 County: Cook

Facility Contact Official: Daryl Baker Branch/Organization: _____

Title: Environmental Specialist

Region: N Date of Inspection: 1/17/86 Time: (From) 8:00am (To) 4:30pm

Type of Inspection: (GWM) RR F/U ___/___/___ (Date of Initial Inspection)

Preparer Information:

Name:
Jeannine Balsamo

Agency/Title:
IEPA / EPS

Telephone:
312/345-9780

Section	Class I	Class II
Not Regulated by Part 725 Subpart F		
TOTAL Class I's & II's		

Type of facility: (check appropriately)	YES	NO	UNKNOWN	WAVIED
a) surface impoundment	X			
b) landfill		X		
c) land treatment facility		X		
d) disposal waste pile*		X		

Groundwater Monitoring Program

1. Was the groundwater monitoring program reviewed prior to site visit?	X			
if "NO", a) Was the groundwater program reviewed at the facility prior to site inspection?				
2. Has a groundwater monitoring program (capable of determining the facility's impact on the quality of groundwater in the uppermost aquifer underlying the facility) been implemented? 725.190(a)				

*Listed separate from landfill for convenience of identification.

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IL 532-1344
LPC 195 4/85

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: March 4, 1986

TO: Division File

FROM: Jeannine Balsamo

SUBJECT: 0316500003 - Cook County - Chicago/Sherwin-Williams
ILD0054565439 - Subpart F Inspection

An inspection was conducted on January 17, 1986 at the above referenced facility to inspect their groundwater monitoring program and to further investigate the facility's contention that they are not regulated by Subpart F Groundwater Monitoring Requirements. Present at the inspection were Gino Bruni, who also conducted an LSS inspection on this day, Caroline Panico, Cliff Gould and myself of IEPA, and Lily Herskovits of USEPA. Daryl Baker represented PMC and D.T. Rehor, Rob Martin, and Jim Baran represented Sherwin-Williams. Daryl Baker was previously employed by Sherwin-Williams and is still on contract to handle any matters concerning the surface impoundments. Sherwin-Williams manufacturers resins and generates such hazardous waste as wash solvent, paint waste, and still bottoms. All hazardous waste is sent for reclaiming or is sold as secondary fuel. In June, 1985, Sherwin-Williams sold 40 of their 123 acres to PMC Industries, Inc. PMC generates paracresol pitch (F004) which is used as secondary fuel, and spirit blue process residue (D002) which is landfilled.

Chemical sewers located throughout both facilities discharge caustic wastewater to the powerhouse, now located on PMC's property, where pH is adjusted. The effluent is then piped to two surface impoundments which are still located on Sherwin-Williams' property. Sherwin-Williams constructed the impoundments to satisfy MSD's regulations by allowing retention time for pH adjustment. The facility listed the impoundments on their initial Part A application in the belief that they would be disposing K081, wastewater treatment sludge from the production of paint, in the impoundment. K081 never became a listed waste under the RCRA regulations. There was also some concern as to whether the impoundments received any other hazardous material as a result of spills. The facility also had been triggered into assessment on their first semi-annual sampling. The facility addressed this issue in a March 18, 1985 letter to the Agency explaining that raw materials, finished product nor other spill material had entered the sewer system or the impoundments. On June 4, 1985, Mark Haney notified the facility that the surface

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impoundments were not regulated, and thus the facility ceased monitoring the wells. USEPA, though, had not made a final determination regarding the sites status and monitoring was to have continued until such time. It appeared though, that Mark Haney's letter addressed only waste resulting from accidential spills at the Sherwin-Williams plant. Since these events, IEPA had discovered that other hazardous waste streams not previously mentioned, specifically, K083 and anniline, may have entered the impoundment from what is now PMC's facility. This inspection was conducted to evaluate these concerns. Upon IEPA receiving final authorization, USEPA has stopped investigating the case.

PMC is now producing alkali blue dye. Aniline, a starting material for the synthesis of many commercial dyes, is introduced to the process in the early stages. In a later stage, the alkali blue crystallizes and is filtered out for further processing. The remaining filtrate is allowed to settle, separating the lighter aniline from water. The aniline is recycled back into the process and the water is discharged to the impoundments. The facility states that any aniline that is discharged to the impoundments is a deminimus loss. By definition, the discharge of aniline would not be a deminimus loss since it is being discharged through a continuing process. PMC periodically samples the chemical drains to determine the amounts of aniline being discharged. Furthermore, MSD states that annually 8000 lbs. are discharged to the sewer after settling in the ponds. Aniline in this form, though, is not regulated by any RCRA or MSD regulations.

During the production of the alkali blue dye, a hot, blue residue is generated. The residue is quenched with water and allowed to dewater in rolloff boxes which are placed over the chemical sewer drains. PMC refers to this residue as K083, still bottoms from the production of aniline. The facility claims that the waste is not actually K083 but is just called this for "lack of a better definition". The waste is landfilled as D002. There was some question as to whether the dewatering process was discharging K083 and/or aniline into the impoundments. Since the residue is not actually K083 and the aniline is not regulated, the dewatering process does not introduce any listed hazardous waste into the impoundments.

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PMC intends on installing tanks in the future so their effluent is separate from Sherwin-Williams. Presently, Daryl Baker samples the effluent at the powerhouse daily and analyzes for BOD, pH and total solids. Seven times a month a sample is analyzed for COD and TOC. In the future, sampling stations will be installed for further analysis of the chemical sewers. The monitor wells were last sampled in February, 1985 but the results were never submitted to the Agency. Mr. Baker stated that the facility became "annoyed" with the Agency after its denial of their assessment plan and decided at that time to withdraw the impoundments. The impoundments were last emptied in 1981 and the sludge was landfilled as non-hazardous.

An old landfill is located on the southeast portion of the Sherwin-Williams property. Wells W-4, W-5, W-6 and W-7 monitor the landfill for non-RCRA purposes. One set of analytical data for these wells was submitted to the Agency on December 20, 1984 and shows above standard levels for many of the drinking water and groundwater quality parameters. In the future, the landfill may be a potential source of groundwater contamination.

In conclusion, the wastes generated by Sherwin-Williams and PMC which are treated and discharged into the surface impoundment are not regulated, therefore, the facilities are not subject to Subpart F requirements.

JB:pgb:2065P

cc: Northern Region
Mark Haney
Jeannine Balsamo

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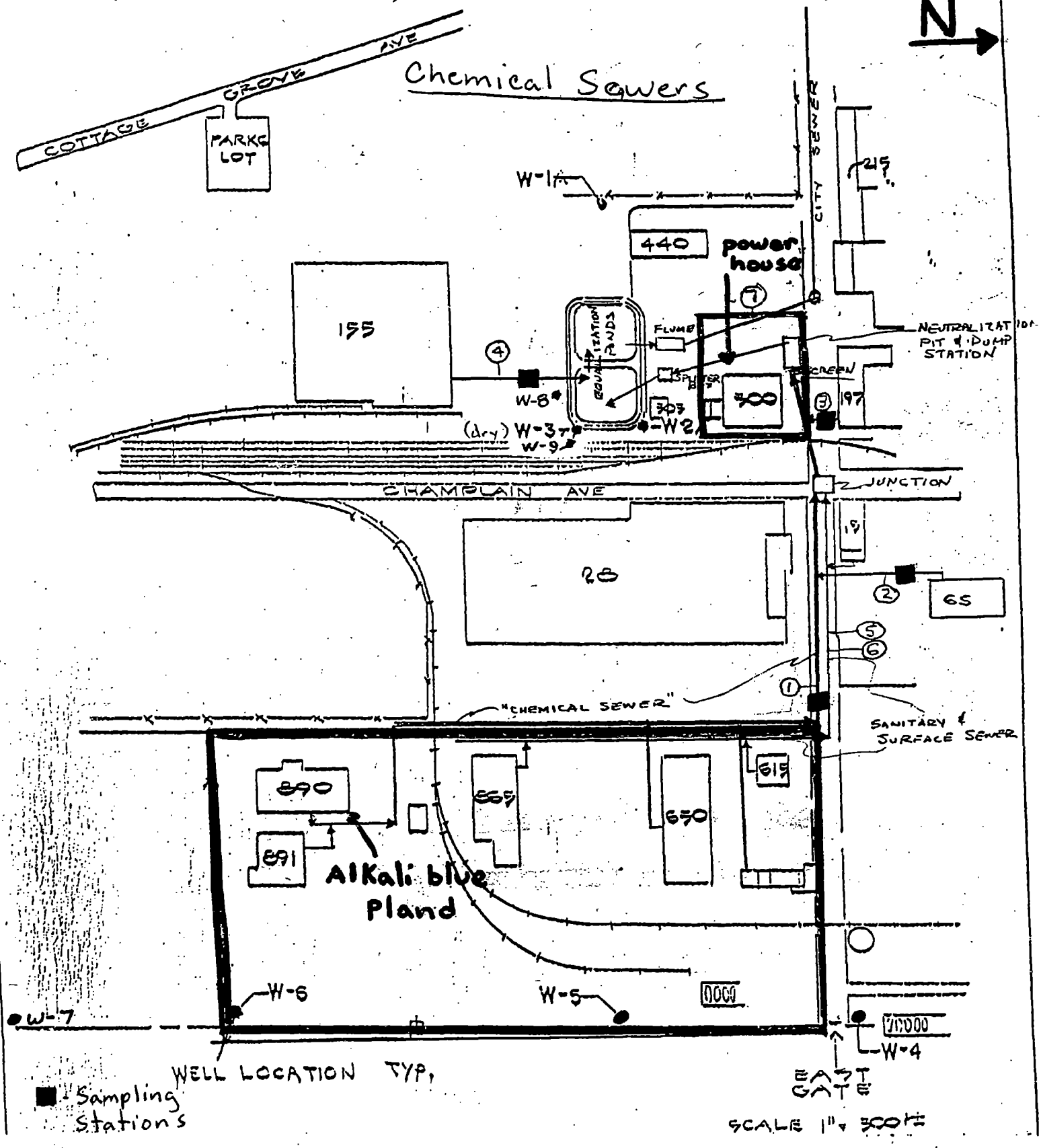
Wastewater Treatment, Sherwin-Williams, Chicago, Ill.



PMC Property	STREAM	VOLUME	CHARACTER OF STREAM
	(1) –	0.6404 MMgpd	NON-FEDERALLY REGULATED WASTEWATER
	(2) –	0.2820 "	
	(3) –	0.1759 "	
	(4) –	0.0308 "	
	(5) –	0.3061 "	— SANITARY WASTE & NON-PROCESS WASTEWATER
	(6) –	0.0270 "	+ SURFACE DRAINAGE
	(7) – TOTAL	1.4622	– COMBINED EFFLUENT.

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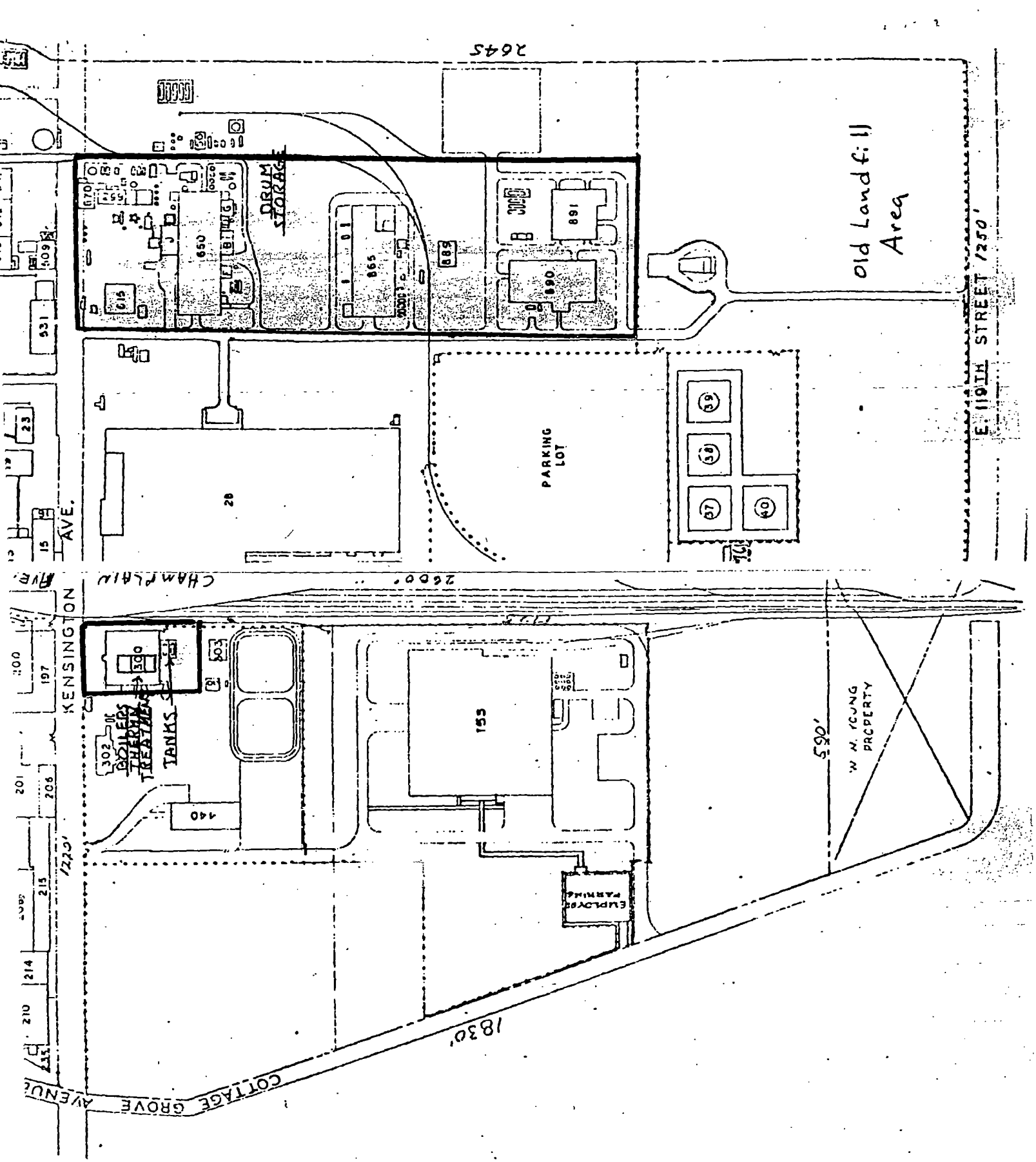

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4140 LITT DRIVE • Phone 312/544-3260 • HILLSIDE, ILLINOIS 60162

NO. [illegible]

Sherwin Williams Company
Attn: Mr. R. Benson
11541 South Champlain Avenue
Chicago, Illinois 60628

100/.387 = 2.64

P.O. No. C 58851

Sample Recd. 6/20/80 Tests Completed 7/1/80

SAMPLE INFORMATION

Source #6173 - Pond Sludge Sample 83-1 6/20/80

Comments

Sampling Method: By Client ____ By Sub. Lab. X Serco Auto-Sampler ____ Other ____

ANALYSIS

		6173	X 2.64	DB			6173	DB	30.1 ×3.32
Total Solids	%	37.87	100	38.1	Nitrogen-Tot	mg/l			
Fix. Tot. Sol.	mg/l				Nitrogen-Amm	mg/l			
Vol. Tot. Sol.	mg/l				Nitrogen-Org	mg/l			
Diss. Solids	mg/l				Nitrite	mg/l			
Settle. Sol.	ml/l				Nitrate	mg/l			
Tot. Sus. Sol.	mg/l				Phosphate (Total)	mg/l			
Fix. Sus. Sol.	mg/l				Phosphate (Ortho)	mg/l			
Vol. Sus. Sol.	mg/l				Sulfate	mg/l			
Ash	%	33.3	88		Sulfide	mg/l			
BOD	mg/l				Sulfite	mg/l			
COD	mg/l				Aluminum	mg/l			
DO	mg/l				Antimony	mg/l			
Moisture	%	62.13			Arsenic	ppm	0.129	.35	1 3.32
Phenols	ug/l				Barium	ppm	32.0	84.5	
ABS or LAS	mg/l				Beryllium	mg/l			
Oils & Greases	mg/l				Boron	mg/l			
					Cadmium	ppm	0.83	2.2	2 6.6
Tot. Bact.	Cells/100 ml				Calcium	mg/l			
Tot. Coli.	Cells/100 ml				Chrom-Total	ppm	27.6	73	33 110
Fecal Coli.	Cells/100 ml				Chrom-Hex.	mg/l			
Inorganic	%	92.5			Chrom-Tri.	mg/l			
pH		10.8			Copper	ppm	1.30	3.4	11 35
Spec. Cond.					Iron	mg/l			
Alkalinity	$CaCO_3$ %	10.38			Lead	ppm	11.1	29.6	9 30
Acidity	$CaCO_3$ ppm	0.0			Lithium	mg/l			
Tot. Hard.	mg/l as $CaCO_3$				Magnesium	mg/l			
Resid. Cl_2	mg/l				Manganese	mg/l			
Bromide	mg/l				Mercury	ppb	< 1.0	< 3.6	
Chloride	mg/l				Nickel	ppm	10.3	27	28 93
Fluoride	mg/l				Potassium	mg/l			
Cyanide-Total	ppm	< 0.003	.0079		Silver	ppm	< 0.10	< .264	.1 .3
Cyanide-Free	mg/l				Sodium	mg/l			
Selenium	ppm	0.514	1.36		Strontium	mg/l			
Flash Point	°F	> 212 °F			Tin	mg/l			
Organic	%	7.5			Zinc	ppm	2.24	5.9	120 [illegible]

Our methods are in accordance with the American Public Health Association, Standard Methods 14th Edition.

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ANALYSIS CERTIFIED BY: [signature], Director Date: 7/2/80 dcn

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SPECIAL WASTE ANALYSIS REPORT

SALES	CODE
	A 10032

WASTE PROFILE SHEET CODE

LABORATORY: Chemical Waste Management of Illinois

PROFILE SHEET RECEIVED ON: 4-28-81 REPRESENTATIVE SAMPLE RECEIVED ON: 4-28-81

CERTIFICATE OF REP. SAMPLE RECEIVED: 4-28-81 SAMPLE TAKEN: 4-8-81

PROPOSED TREATMENT/DISPOSAL FACILITY: CHICAGO/CID

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTABLISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (*).

DATE OF ANALYSIS: 9-24-81 LAB MANAGER: William R. Karpas

CWM #5525 - SHERWIN WILLIAMS CO. CHICAGO, ILL. (AMENDED REPORT)

Test	As Received	IEPA Leachate	Analyst Initials	Test	As Received	Leachate	Analyst Initials
Specific Gravity							
pH	9.5		TZ				
Acidity, % as							
Alkalinity, % as				Phenols, mg/l	925.		MRK
C O D, mg/l				Cyanides, as CN, Total, mg/l	<10.0		TZ
B O D_5, mg/l				Cyanides, as CN, Free, mg/l			
Total Solids @ 105°C	26.87%		TZ				
Total Dissolved Solids, mg/l				Nitrogen, Ammonia, as N, mg/l			
Total Suspended Solids, mg/l				Nitrogen, Organic, as N, mg/l			
Residue on Evaporation @ 180°C				Total Kjeldahl Nitrogen, as N, mg/l			
Flash Point, F°	>212		TZ	Total Alkalinity (P), as $CaCO_3$, mg/l			
Ash Content, on ignition	23.92%		TZ	Total Alkalinity (M), as $CaCO_3$, mg/l			
Heating Valve, BTU/lb				Total Hardness, as $CaCO_3$, mg/l			
"Acid Scrub," gNaOH/g				Calcium Hardness, as $CaCO_3$, mg/l			
				Magnesium Hardness, as $CaCO_3$, mg/l			
Arsenic, as AS, mg/l	1.0		RR				
Barium, as Ba, mg/l	90.0		RR				
Boron, as Bi, mg/l				Oil and Grease; mg/l			
Cadmium, as Cd, mg/l	1.0	≤0.16 *	RR				
Chromium, Total as Cr, mg/l	34.0	1.0	RR				
Hexavalent Chromium @ Cr, mg/l				Aldrin, mg/l			
Copper, as Cu, mg/l	13.0		RR	Chlordane, mg/l			
Iron, Total as Fe, mg/l				DDT's, mg/l			
Iron, dissolved, as Fe, mg/l				Dieldrin, mg/l			
Lead, as Pb, mg/l	19.0	≤3.11 *	RR	Endrin, mg/l			
Manganese, as Mn, mg/l				Heptachlor, mg/l			
Magnesium, as Mg, mg/l				Lindane, mg/l			
Mercury, as Hg. PPB	<100.		RR	Methoxychlor, mg/l			
Nickel, as Ni, mg/l	40.0		RR	Toxaphene, mg/l			
Selenium, as Se, mg/l	<1.0		RR	Parathion, mg/l			
Silver, as Ag, mg/l	<1.0		RR	2, 4, D, mg/l			
Zinc, as Zn, mg/l	96.0		RR	2, 4, 5, TP (Silvex), mg/l			
				PCB's, mg/l			
Bicarbonates, as HCO_3, mg/l							
Carbonates, as CO_3, mg/l							
Chlorides, as Cl, mg/l							
Fluorides, as F, mg/l							
Nitrate, as NO, mg/l							
Nitrite, as NO, mg/l							
Phosphate, as P, mg/l							
Sulfate, as SO, mg/l							
Sulfides, as S, mg/l (DISSOLVED)	<1.0		TZ				

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This report has been prepared for the exclusive use and benefit of Chemical Waste Management of Illinois. No representation concerning sample validity or analytical accuracy or completeness is hereby made to any other person...

CWM #5525

$52.00

New Application ___
Renewal X 801672
Additional Site ___

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
SPECIAL WASTE DISPOSAL APPLICATION

FOR AGENCY USE Log # _____

THIS APPLICATION FOR WASTE:
Treatment ___
Disposal ___
Storage ___

CARD TYPE DATE 9/28/81 L P S W C AUTHORIZATION NUMBER _____ TRANS CODE ___ DATE ENTERED (Agency Use) ___/___/___

WASTE HAULER

HAULER REGISTRATION NUMBER 0019 NAME Great Lake Disposal

ADDRESS R.R. #1, Box 147 COMMUNITY Crete

COUNTY Will STATE Il. ZIP 60417 AREA CODE 312 TELEPHONE 758 7100

WASTE GENERATOR

GENERATOR CODE 0316000020 G NAME Sherwin WIlliams

ADDRESS 11541 Champlain COMMUNITY Chicago

COUNTY Cook STATE Il. ZIP 60628 AREA CODE 312 TELEPHONE 821 3028

GENERATOR CONTACT NAME Stan Fryzel

DUNS NUMBER _____ SIC CODE 2865 USEPA GEN. CODE _____

PROCESS NAME Settling & Equalization After Site Sewage is treated with lime to neutralizated any acid present.

WASTE CHARACTERISTICS

GENERIC WASTE NAME Settling Pond Sludge

IUPAC WASTE NAME _____

TOTAL ANNUAL WASTE VOLUME 5000 VOLUME UNITS 1 WASTE PHASE 2

TRANSPORT FREQUENCY 3 WASTE CLASS (Agency Use) ___

1 = ONE TIME, 2 = DAILY, 3 = WEEKLY, 4 = BI-WEEKLY, 5 = MONTHLY, 6 = BI-MONTHLY, 7 = QUARTERLY, 8 = SEMI-ANNUALLY

1 = CUBIC YARDS, 2 = GALLONS

1 = SOLID, 2 = SEMI-SOLID, 3 = LIQUID, 4 = GAS

(Code either "1" for Low, "2" for Medium, or "3" for High as appropriate for columns 21 through 26):

INHALATION TOXICITY 1 DERMAL TOXICITY 1 INGESTIVE TOXICITY 1 INFECTIOUS ___ REACTIVITY ___ EXPLOSIVE ___

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FLASH POINT 212°F ALPHA RADIATION _____ (pCi/L) COMPOSITION 2

1 = ORGANIC
2 = INORGANIC

PERCENT ACIDITY ___ PERCENT ALKALINITY ___ pH 9.5 PERCENT TOTAL SOLIDS 26.87 Ash content 23.92%

KEY COMPONENT NAME	PERCENT	KEY COMPONENT NAME	PERCENT
1 WATER	73.1	2 INORGANIC SALTS	23.9
3 OILS + RESINS	2.9	4 PHENOLICS	0.1
5		6	

CONFIDENTIAL INFORMATION

USEPA HAZARDOUS WASTE NO. (If Hazardous) ____,____,____,____

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CARD TYPE DATE 9/28/81 L P S W C AUTHORIZATION NUMBER ____ TRANS CODE ____ DATE ENTERED (Agency Use) ____/____/____

WASTE CHARACTERISTICS

METAL	KEY	TOTAL (PPM)	EP TOXICITY (PPM)	METAL	KEY	TOTAL (PPM)	EP TOXICITY (PPM)
CN		10.0		Cu		13.0	
Ag		1.0		Hg		0.1	
As		1.0		Ni		40.0	
Ba		90.0		Pb		19.0	
Cd		1.0		Se		1.0	
Cr		34.0		Zn		96.0	
PHENOL		925.0		$S^{=}$		2.0	(DISSOLVED)
ENDRIN				2 - 4 D			
LINDANE				2,4,5 - TP			
METHOXYCHLOR				TOXAPHENE			

LABORATORY NAME Chemical Waste Management of Illinois

CERTIFICATION NUMBER ____ REVIEWED BY: ____/____

1 SITE CODE 0 31 6 0 0 3 0 SITE NAME Chicago/CID

DISPOSAL METHOD 0 1 NEUTRALIZATION METHOD ____

SIGNATURE _____ (SITE OWNER) SIGNATURE William R. Kaspar (SITE OPERATOR)

STATUS ____ START DATE ____/____/____ EXPIRATION DATE ____/____/____

2 SITE CODE ____ SITE NAME ____

DISPOSAL METHOD ____ NEUTRALIZATION METHOD ____

SIGNATURE _____ (SITE OWNER) SIGNATURE _____ (SITE OPERATOR)

STATUS ____ START DATE ____/____/____ EXPIRATION DATE ____/____/____

3 SITE CODE ____ SITE NAME ____

DISPOSAL METHOD ____ NEUTRALIZATION METHOD ____

SIGNATURE _____ (SITE OWNER) SIGNATURE _____ (SITE OPERATOR)

STATUS ____ START DATE ____/____/____ EXPIRATION DATE ____/____/____

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4 SITE CODE ____ SITE NAME ____

DISPOSAL METHOD ____ NEUTRALIZATION METHOD ____

SIGNATURE _____ (SITE OWNER) SIGNATURE _____ (SITE OPERATOR)

STATUS ____ START DATE ____/____/____ EXPIRATION DATE ____/____/____

DISCLAIMER: The analytical data present in this Application represent the results of an analysis of a single waste sample, for only those components and characteristics for which entries are made, and using only those analytical methods or procedures specified for use by the Illinois Environmental Protection Agency. No representation is made by the laboratory or the site operator that other components or characteristics are not present in the sample analyzed, or that other waste samples or other analytical methods or procedures will not yield

ARRO Laboratories, Inc.

P.O. Box 686 Caton Farm Road
Joliet, Illinois 60434

Telephone 815 727-5436 312 454-0245
Telex 723421 UAR JOL

TABLE NO. 1

REVISED REPORT

Analysis of Monitor Wells for

Sherwin Williams Company

Parameter	G102 91835	G101 91836	G108 91837	G109 91838
Formaldehyde, mg/l	0.2	0.47	<0.1	0.35
Phenol, mg/l	0.024	0.012	0.014	0.612
Vanadium, mg/l	<0.2	<0.2	<0.2	<0.2
Acrylonitrile, mg/l	<0.005	<0.005	<0.005	<0.005
Aniline, mg/l	<0.01	<0.01	<0.01	<0.01
Benzonitrile, mg/l	<0.005	<0.005	<0.005	<0.005
Cresols, mg/l	<0.005	<0.005	<0.005	0.25
o-Dichlorobenzene, mg/l	<0.005	<0.005	<0.005	<0.005
Dibutylphthalate, mg/l	<0.01	<0.01	<0.01	<0.01
Phthalic Anhydride, mg/l	<0.01	<0.01	<0.01	<0.01
Toluene, mg/l	<0.01	<0.01	<0.01	<0.01
Xylene, mg/l	<0.01	<0.01	<0.01	<0.01
Diphenylamine, mg/l	<0.01	<0.01	<0.01	<0.01
Ethylbenzene, mg/l	<0.01	<0.01	<0.01	<0.01

Methods of Analysis

Formaldehyde - Distillation - Colorimetric Analysis
Phenol - Distillation - Colorimetric Analysis
Vanadium - Atomic Absorption
Organics - GC/mass Spec.

D. B

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